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ABSTRACT

This document lists 119 commercially available sets of audiotapes which deal with topics in mathematics. Some of the tapes listed were designed to accompany film strips; others are associated with workbooks, study guides, or other instructional materials. Each listing provides the name of the tape, a level code, a brief description, and the name of the publisher. Six level codes are used to indicate primary, intermediate, junior high school, senior high school, adult, or college. A list of publishers' addresses is provided. (SD)

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Examples of Audio-Tutorial Programs in Mathematics

by

F. Morgan Simpson

Auburn University at Montgomery
Montgomery, Alabama

April, 1976

SE 021 191

Introduction

Tutoring is one of the oldest teaching strategies. It has been hypothesized to be superior to other methodologies, but only recently with the use of instructional technology has tutoring become a real possibility for most of today's teachers.

Some of the various strategies which teachers can use to provide private instruction are as listed.

Tutoring Strategies

1. Audio-Tutorial Instruction
2. Computer Assisted Instruction
3. Individualized Instructional Packages
4. Personalized System of Instruction
5. Programmed Instruction
6. Tutorial
7. Video Tutorial Instruction

This paper sites examples of only audio-tutorial programs.

Audio-tutorial Instruction is a program of learning which utilizes audio tapes and other learning materials such as textbooks, filmstrips, workbooks and other materials. Basically the instruction is a programmed sequence of learning activities which are presented to the student by the use of audio-tapes.

The development of the audio-tutorial method is attributed to the work of Samuel N. Postlethwait of Purdue University. In 1961 Postlethwait first sought to put only casual comments on audio tapes to assist students in his freshman botany course.

From this beginning, audio-tutorial instruction has grown in popularity. Its' use in the classroom can be seen in all levels of education from the elementary school through higher education.

With audio-tutorial materials the student is able to stop the recorder and re-play the instructional explanations. Essentially, the voice on the audio tape acts as a tutor for the student. With the use of a visual display, the student becomes an actively involved learner.

This paper was prepared to assist mathematics teachers in their identification of various commercially prepared audio-tutorial programs in mathematics. The writer solicited information about programs from various vendors. The specific materials are presented alphabetically by title with information such as author, level, description and company presented when available. Lastly, the specific programs are grouped according to the vendor.

EXAMPLES OF AUDIO-TUTORIAL PROGRAMS IN MATHEMATICS

Compiled by F. Morgan Simpson
Auburn University at Montgomery
April, 1976

Title and Author (if available)	Level	Description	Company
1. Addition and Substraction Learning Module	P	The module consist of 12 sound filmstrips, 24 cassette/response card lessons and manipulatives	Society for Visual Education
2. Algebra Modules: Intermediate Level by Joseph Newmyer, Jr. & Gus Klentos		Coordinated audio-tapes and student workbook	Charles E. Merrill
3. Algebra: Semesters 1 and 2	S.A	Six filmstrips and cassettes for use in the AutoTutor which results in a branched program.	TutorSystems
4. Algebra: Semesters 3 and 4	S.A	Six filmstrips and cassettes for use in the AutoTutor which results in a branched program.	TutorSystems
5. Applied Mathematics for Technical Programs by Robert G. Moon	C	Coordinated audio-tapes and student workbook	Charles E. Merrill
6. Arithmetic: A Modern Approach, Second Edition		A set of cassettes to accompany the Keedy and Bittinger textbook. There is one lesson for each section in the text.	Addison-Wesley
7. Arithmetic Exercises	S	Four sets of 24 lessons on 6 cassettes with student worksheets.	Baker and Taylor

8.	Arithmetic Fundamentals-CTB	P,I J,H A	These are five different programs for various levels from primary to adult. Each consist of 4 filmstrips and cassettes for use in the AutoTutor which results in a branched program.	TutorSystems
9.	Arithmetricks by Joseph Philip Cech	P	Twelve cassettes with student response books	Coronet Films
10.	Basic Addition Facts Filmstrips	P	Seven filmstrips, and cassettes along with 5 reproducible response booklets, plastic page protectors and wipe-off crayons.	Educational Activities
11.	Basic Algebra		A program of 52 filmstrips/ cassettes.	Gamco Industries, Inc.
12.	Basic Applied Mathematics	H,C A	A coordinated audio-tapes and student workbook	Educulture
13.	Basic Arithmetic by Robert G. Moon, Arthur H. Konrad, Gus Klentos and Joseph Newmyer, Jr.	C	A completely coordinated audio-tape and student workbook	Charles E. Merrill
14.	Basic Mathematics by Joanna S. Burris	C	A coordinated audio-tapes and student workbook consisting of 35 cassette tapes.	Prindle, Weber and Schmidt
15.	Basic Mathematics Modules by Robert G. Moon, Arthur H. Konrad, Gus Klentos and Joseph Newmyer	J,S	Consist of 20 cassettes coordinated with study books	Merrill
16.	Basic Mathematics Set I,II, & III by Allan A. Schwartz	P,I J	Each set contains 10 cassette tapes	Educational Activities

17. Basic Multiplication Facts Filmstrips	P	Eight filmstrips and cassettes along with 5 reproducible response booklets, plastic page protectors and wipe-off crayons.	Educational Activities
18. Beginning Algebra by Robert Evans and William Hemmer		Four units with filmstrips and audio cassettes	Harper and Row
19. Beginning Metric Measurement Learning Module	P	The module consist of 6 filmstrips with cassettes plus several manipulatives	Society for Visual Education
20. Career Arithmetic	J,S C,A	Eight filmstrips and cassettes for use in the AutoTutor which results in a branched program.	TutorSystems
21. Colonial Films - filmstrips by Bernard H. Gundlach		Eight filmstrips with accompanying cassette tapes reviewed in April, 1974 issue of Mathematics Teacher	Colonial Films
22. Common Fractions (Rational Numbers)		Sixteen Cassettes and accompaning worksheets	Tutortapes
23. Comparing Things: What's the Difference in Difference? by James L. Hymes	P	Six filmstrips and cassettes	Coronet Films
24. Computapes: Modules 7-11 Director Stanley J. Bezuszka	I,J	Audio cassette tapes and accompanying ditto masters Reviewed in April, 1975 issue of Mathematics Teacher	Science Research Associates
25. Computer Mathematics: Computer Number Bases by William R. Panks	C	A coordinated audio-tape and student workbook program Review in January, 1975 issue of Mathematics Teacher.	Williamsville Publishing Co., Inc.

26. Concepts of Math		A program of 40 filmstrips/ cassettes with concepts of general mathematics.	Gamco Industries
27. Contemporary Mathematics	I.J	Six filmstrips and cassettes for use in the AutoTutor which results in a branched program.	TutorSystems
28. Decimal Workshop	J	Eight cassettes with student response books	Coronet Films
29. Division Learning Module	I	The module consist of 6 sound filmstrips, 12 cassette/response card lessons plus games.	Society for Visual Education
30. Doing Geometry	I	Ten cassettes with student work books	Coronet Films
31. Early Math, Set 1	P	Five cassettes with duplicator workbook	Mafex Media Aids
32. Early Math, Set 2	P	Five cassettes with duplicator workbook	Mafex Media Aids
33. Elementary Algebra, 2nd Ed. by Robert G. Moon and Robert Davis	C	Coordinated audio-tape and student workbook	Charles E. Merrill
34. Elementary Functions: Algebra and Analytic Geometry by Gus Klentos and Joseph Newmyer	C	Coordinated audio-tapes and student workbook	Charles E. Merrill
35. Elementary Functions: Trigonometry by Gus Klentos and Joseph Newmyer	C	Coordinated audio-tapes and student workbook	Charles E. Merrill
36. Elementary Number Concepts and Skills	P	Two filmstrips and cassettes for use in the AutoTutor which results in a branched program.	TutorSystems

37.	Everyday Living and Related Math		A program of 24 filmstrips/ cassettes.	Gamco Industries
38.	Exploring Curves and Lines	P	Eight cassettes with story cards	Coronet Films
39.	Formula I Math Powerpace by Lola J. May		A tape-cassette program of 36 lessons grouped into six units of instruction in basic mathematics skill areas. Reviewed in Feb. 1973 issue of Mathematics Teacher	Imperial International
40.	Fundamental Mathematics by James Streeter and Gerald Alexander		Four modules of film-strips and cassette tapes.	Harper and Row
41.	Fundamental of Arithmetic James Streeter and Gerald Alexander		Fifteen filmstrips and cassette tapes along with testing program	Harper and Row
42.	Geometry by Wilmer Jones	I,J	A series of 8 learning packages containing a cas-sette tape lesson, student response booklets, test and guide.	Media Meterials
43.	Going Metric		Consist of a cassette tape, a course leader's guide, and workbook.	Willowdale Media
44.	Hoffman Math System		A coordinated auditory filmslide and student response books.	Ebsco
45.	HSM Sound Filmstrips - Grade 7	J	Eight color filmstrips with accompanying records or au-dio cassette tapes. These filmstrips are designed as supplementary to the Holt School Mathematics Program, but can be used with any seventh grade material with similar content. Reviewed in October, 1975 issue of Mathematics Teacher	Holt, Rine-hart and Winston

46. Individual Corrective Math	I,J S	A twenty-four lesson cassette tape program with accompanying pupil workbooks.	Baker and Taylor
47. Individualized Mathematics Skill Builder by Joseph Schultz	P,I J	Seventy-two cassettes developed on three different levels along with diagnostic answer pads.	Harcourt, Brace Jovanovich
48. Intermediate Algebra: A Modern Approach, 2nd Ed.		A set of cassettes to accompany the Keedy and Bittinger textbook. There is one lesson for each section in the text.	Addison-Wesley
49. Intermediate Algebra, 2nd ed. by Joseph Newmyer Jr. and Gus Klentos	C.	Coordinated audio-tape and student workbook	Charles E. Merrill
50. International Metric System (SI)		Four color filmstrips with accompanying cassette tapes and 24 activity cards. Reviewed in April, 1976 issue of Mathematics Teacher	BFA Educational Media
51. International System of Units (Metric Units), The by Louis F. Sokol		Four color filmstrips with accompanying records or cassette tapes. Reviewed in November, 1974 issue of Mathematics Teacher	Society for Visual Education
52. Introduction to Calculus: Sequences and Convergence by Les A. Karlovitz and George N. Tryteen		A series of six filmstrips accompanied by cassette tape recordings. Reviewed in February, 1973 issue of Mathematics Teacher	Encyclopaedia Britannica
53. Introductory Algebra: A Modern Approach, Secondary Edition		A set of cassettes to accompany the Keedy and Bittinger textbook. There is one lesson for each section in the text.	Addison-Wesley

54. Introductory Geometry by Otto C. Bassler, Richard D. Curry, Wayne H. Hall and Edward C. Mealy	J,S	Combination of taped instruction and student workbook. Available in Spanish edition	Charles E. Merrill
55. Introductory Mathematics for the Elementary School Teacher by Jack C. Gill	C	Combination of taped instruction and student workbook.	Charles E. Merrill
56. Junior High Math	J	A program of 36 cassettes and student worksheets to supplement 7th and 8th grade mathematics courses	Gamco Industries, Inc.
57. Let's Go Math! by Ann Edson and Allan A. Schwartz	P	Includes 32 self-contained lessons on 8 cassettes and activity books	Educational Activities
58. Let's Practice Number Facts		A program of 24 filmstrips/ cassettes.	Gamco Industries
59. Listening Your Way to Understanding the Metric System.		Six cassettes with student work sheets and test.	Baker and Taylor
60. Making Metrics Happen by Lola J. May	A	Four 40-minute audio tape cassettes and accompanying study guides.	Listener Educational
61. Mastering Arithmetic Facts by Ervin Marriot	P	Consists of 20 cassettes coordinated with student study booklets.	Charles E. Merrill
62. Mathematical Patterns by Wilmer Jones	P,I	A series of 6 learning packages containing a cassette tape lesson, student response booklets, test and guide.	Media Materials
63. Mathematics and the Liberal Arts by Jack C. Gill	C	Coordinated audio-tapes and student workbook	Charles E. Merrill

64. Math From Rock Bottom: From Ideas to Computations by William H. Nibbelink	I,J	Consist of booklets, study guides and 4 cassettes.	Charles E. Merrill
65. Math Skill Tape Program	P	Five modules of 4 tapes and duplicator masters of worksheets for each tape	Macmillan Company of Canada
66. Measurement by Wilmer Jones	P,I	A series of 9 learning packages containing a cassette tape lesson, student response booklets, test and guide	Media Materials
67. Measurement Skills	P	Two sets of materials with each containing filmstrip, cassette, game card pupil practice pad, and ruler.	Britannica
68. Measuring Things by Herbert F. Spitzer	P	Six filmstrips and cassettes	Coronet Films
69. Merrill Mathematics Skill-Tapes by Francis T. Sganga	I,J	Forty cassettes coordinated with study booklets. Available in Spanish Edition.	Charles E. Merrill
70. Methods of Teaching Elementary School Mathematics by Robert G. Underhill	C	Consist of filmstrips, audio cassettes and a student workbook	Charles E. Merrill
71. Metric: A Self-Instructional Series by Robert L. Taylor	J,S C	Eight filmstrips and cassettes plus student workbooks in either English or Spanish.	Multimedia
72. Metric America, A		Six color filmstrips and accompanying records or cassette tapes. Reviewed in November, 1974 issue of Mathematics Teacher	AIMS

73. Metric Measurement		Twenty-three cassette tapes, sound filmstrip, teacher's guide, and materials for experiments. Reviewed in November, 1974 issue of Mathematics Teacher.	Imperial International
74. Metric Measurement Learning Module	I,J	The module consist of 4 filmstrips with cassettes plus several manipulatives.	Society for Visual Education
75. Metric System, The		Six filmstrips and audio cassettes	Harper and Row
76. Metric System		A program of 14 filmstrips and cassettes	Gamco Industries, Inc.
77. Metric System for the Intermediate Grades, The	I	Two sound filmstrips series (one with 4 filmstrips and cassettes and the other with 3 filmstrips and cassettes)	Pathescope
78. Metric System of Measurement		Four filmstrips with sound	Library Filmstrip
79. Metric System of Weights and Measures, The		Set of 8 audio cassettes	Tutortapes
80. Metric System Teaching Tapes by Ernest R. Duncan	P,I J	Six audio cassette tapes: packets of student worksheets and a teacher's guide in a three-ring binder. Reviewed in Dec., 1975 issue of Mathematics Teacher	Houghton Mifflin
81. Metric System-The Universal Language of Measurement, The	J,S A	Six filmstrips and cassettes	Pathescope

82. Metric Video Tape Series		Five video tapes with two additional video tapes available on rental basis only.	Society of Manufacturing Engineers
83. Metric World: The Mighty Meterman Makes the Metric System Simple by Boyd Henry and Mary Jo Pottenger	I,J	Six filmstrips and cassettes.	Coronet Films
84. Metrikit by Francis T. Sganga	I	Consists of cassettes coordinated with student study guides, filmstrip/ cassette, activity cards, and manipulatives.	Charles E. Merrill
85. Mini-Courses for Allied Health Sciences: Mathematics by George Wistreich and Sharon Millman		A coordinated audio-tapes and student workbook program	Educulture
86. Mini-Courses in Mathematics: Algebra by Robert Steinbach, Robert Evans, and Sharon Millman		A coordinated audio-tapes and student workbook consisting of 19 modules	Educulture
87. Mini-Courses in Mathematics: Arithmetic by Robert C. Steinbach		A coordinated audio-tapes and student workbook	Educulture
88. Mini-Courses in Mathematics: Trigonometry by Robert Steinbach		A coordinated audio-tapes and student workbook program	Educulture
89. Multiplication Learning Module	I	The module consist of 8 sound filmstrips, 16 cassette/response card lessons plus manipulatives and games.	Society for Visual Education.
90. Necessary Arithmetic Skills		Forty filmstrips and accompanying cassette tapes. Reviewed in January, 1974 issue of Mathematics Teacher	Gamco

91.	Number Facts, The		Set of 12 cassette tapes.	Tutortapes
92.	Number Sentences and Problem Solving by Wilmer Jones	P,I	A series of 3 learning packages containing a cassette tape lesson, student response booklets, test and guide.	Media Materials
93.	Numeration by Wilmer Jones	P,I	A series of 7 learning packages containing a cassette tape lesson, student response booklets, test and guide	Media Materials
94.	Operations with Decimals by Wilmer Jones	P,J	A series of 6 learning packages containing a cassette tape lesson, student response booklets, test and guide	Media Materials
95.	Operations with Fractions by Wilmer Jones	I	A series of 7 Learning Packages containing a casette tape lesson, student response booklets, test and guide	Media Materials
96.	Operations with Whole Numbers by Wilmer Jones	P,I	A series of 9 learning packages containing a cassette tape lesson, student response booklets, test, and guide.	Media Materials
97.	Paradox Box, The by Martin Gardner	S	Six sound and color filmstrips which present an exciting collection of adventures in mathematics for high school students.	W.H. Freeman
98.	Percent by Wilmer Jones	I,J	A series of 8 learning packages containing a cassette tape lesson, student response booklets, test and guide.	Media Materials

99.	Perimeter, Area, Volume by Wilmer Jones	I,J	A series of 5 learning packages containing a cassette tape lesson, student response booklets, test and guide	Media Materials
100.	Practice Tapes for Modern School Mathematics: Algebra I Robert R. Hurst	S	Fifty-four cassette tapes of varying lengths which are designed to supplement the Dolciani Algebra I textbook. Reviewed in Feb., 1974 issue of Mathematics Teacher	Houghton Mifflin
101.	Probing Word Problems in Mathematics	J,S	Eight cassettes with stusent response books	Coronet Films
102.	Problem Solving Learning Module	P,I	The module consist of 4 filmstrips with accompaning cassette tapes plus various games.	Society for Visual Education
103.	Ratio and Proportion by Wilmer Jones	I,J	A series of 4 learning packages containing a cassette tape lesson, student response booklets, test and guide.	Media Materials
104.	Ready Go Math! by Ann Edson and Allan A. Schwartz	P	Includes 32 self-contained lessons on 8 cassettes and activity books	Educational Activities
105.	Second Year Algebra		A program of 69 cassettes and student worksheets	Gamco Industries
106.	Skillseekers I		Consist of four units in addition and substraction with coordinated audio-tapes and student workbooks.	Addison-Wesley
107.	Skillseekers 2		Consist of material in multiplication and division with coordinated audio-tapes and student workbooks.	Addison-Wesley

108.	Statistics: An Audio-Tutorial Approach by Morton Goldberg and William G. Vick	C	Coordinated audio-tapes and student workbook	Charles E. Merrill
109.	Statistics and Graphing by Wilmer Jones	I,J	A series of 6 learning packages containing a cassette tape lesson, student response booklets, test, and guide.	Media Materials
110.	Stumbling Blocks in Arithmetic by Doreen Rademacher		Three filmstrips with accompanying teacher's manual and records or cassette tapes. Reviewed in January, 1974 issue of Mathematics Teacher	Pathescope
111.	Stumbling Blocks in Fractions by Doreen Rademacher		Four filmstrips with accompanying teacher's manual and records or cassette tapes. Reviewed in January, 1974 issue of Mathematics Teacher	Pathescope
112.	Telling Time	P	Four fifteen minute lessons with filmstrips, cassettes, and visual material	Enclyclopaedia Britannica
113.	Think Metric		Two color filmstrips and accompanying tape cassettes, teacher's guide and script. Reviewed in November, 1974 issue of Mathematics Teacher	Educational Products
114.	Think Metric, U.S.A. by Pauline Jenness and Ann Kmet Wesson		A coordinated audio-tapes and student workbook program.	Educulture
115.	Understanding and Using Decimals		Ten filmstrips and cassettes	Pathescope

116.	Understanding and Using Percent		Ten filmstrips and cassettes	Pathescope
117.	Using the Metric System	I,J S,A	Six filmstrips with cassettes	Baker and Taylor
118.	Welcome to the World of Metrics by June Debode Ostein	P,I	Five modules which include 12 audio cassettes. metric manipulatives, and 40 reproducable worksheets.	Listener
119.	Working with the Metric System by Ernest R. Duncan and Vincent M. Acquaviva	S,A	Six audio tape cassettes, teacher's guide and accompanying packet of 10 worksheets. Reviewed in February, 1976 issue of Mathematics Teacher	Houghton Mifflin

Level Code

P - Primary

I - Intermediate

J - Junior High School

S - Senior High School

A - Adult

C - College

Index of Companies with Audio-Tutorial Program in Mathematics

Company and Address	Reference Number for Audio-Tutorial Programs
Addison-Wesley Publishing Company, Inc. Reading, Massachusetts 01867	6,48,53,106,107
AIMS Instructional Media Services P.O. Box 1010 Hollywood, California 90028	72
Baker and Taylor Companies Drawer Z Monence, Illinois 60954	7,46,59,117
BFA Educational Media 2211 Michigan Avenue Santa Monica, CA 90404	50
Coronet Films 65 East South Water Street Chicago, Illinois 60601	9,23,28,30,38,68, 83,101
Colonial films 752 Spring Street, N.W. Atlanta, Ga 30308	21
Ebsco Industries, Inc. (Alabama Distributor) 1230 First Avenue N. Birmingham, Al 35203	44
Educational Activities, Inc. P.O. Box 392 Freeprot, N.Y. 11520	10,16,17,57,104
Educational Products, Inc. 5005 W. 11th Street Oak Lawn, Ill 60453	113
Educulture, Inc. 1220 Fifth Street Santa Monica, CA 90401	12,85,86,87,88,114
Encyclopaedia Britannica Educational Corp. 425 N. Michigan Avenue Chicago, Ill 60611	52,67,112
W.H. Freeman and Company 660 Market Street San Francisco, CA 94104	97

Gamco Industries, Inc. Box 1911 Big Springs, Texas 79770	11,26,37,56,58,76,90,105
Harcourt, Brace, Jovanovich, Inc. 757 Third Avenue New York, N.Y. 10017	47
Harper and Row Publishers, Inc. 10 East 53rd Street New York, N.Y. 10022	18,40,41,75
Holt, Rinehart and Winston 383 Madison Avenue New York, N.Y. 10017	45
Houghton Mifflin One Beacon Street Boston, Ma 02107	80,100,119
Imperial International Learning Corp. Box 548 Kankakee, Ill 60901	39,73
Library Filmstrip Center 3033 Aloma Wichita, Kansas 62211	78
Listener Educational Enterprices 6777 Hollywood Boulevard Hollywood, Ca 90028	60,118
Macmillan Company of Canada, Ltd. 70 Bond Street Toronto, Ontario M5B1X3 Canada	65
Mafex Media Aids, Inc. 90 Cherry Street Johnstown, Pa 15902	31,32
Media Materials, Inc. 2936 Remington Avenue Department H Baltimore, Maryland 21211	42,62, 66, 92, 93, 94 95,96,98,99,103,109
Charles E. Merrill Publishing Co. 1300 Alum Creek Drive Columbus, Ohio 43216	2,5,13,15,33,34,35 49,54,55,61, 63,64 69,70,84,108
Multi-Media Publications, Inc. 1601 South Federal Blvd Denver, Colorado 80219	71

Pathescope Educational Films, Inc. 71 Weyman Avenue New Rochelle, N.Y. 10802	77,81,110,111,115 116
Prindle, Weber and Schmidt 20 Newbury Street Boston, Ma 02116	14
Science Research Associates, Inc. 259 East Erie Street Chicago, Ill 60611	24
Society for Visual Education, Inc. 1345 Diversey Parkway Chicago, Illinois 60614	1,19,29,51,74,89,102
Society of Manufacturing Engineers 20501 Ford Road Dearborn, Michigan 48128	82
Tutor System Division of Sargent-Welch Scientific Co. 7300 Linder Avenue Skokie, Illinois 60076	3,4,8,20,22,27,36
Tutortapes International Tutors 22303 Devonshire Chatsworth, CA 91311	79,91
Williamsville Publishing Co., Inc. P.O. Box 237 Williamsville, N.Y. 14221	25
Willowdale Media, Inc. 12 Parfield Drive Willowdale, Ontario M2J1B9 Canada	43